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| 67801 7590 04/29/2010 MARTIN D. MOYNIHAN d/b/a PRTSI, INC. P.O. BOX 16446 A PLINICTON, WA 22215 |             |                      | EXAMINER            |                  |  |
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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|   |   |  | ication No.  | Applicant(s)  |   |  |  |  |
|   |   | 10/6   | 68,109   | ANATI ET AL.  |   |  |  |  |
| O   | ffice Action Summary  | Exar   | niner  | Art Unit  |   |  |  |  |
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| The<br>Period for Rep   | The MAILING DATE of this communication appears on the cover sheet with the correspondence address<br>Period for Reply   |  |  |   |   |  |  |  |
| A SHORTE WHICHEVE - Extensions of after SIX (6) - If NO period t - Failure to rep Any reply rec   | ENED STATUTORY PERIOD F<br>ER IS LONGER, FROM THE M<br>If time may be available under the provisions<br>MONTHS from the mailing date of this comn<br>for reply is specified above, the maximum st<br>ly within the set or extended period for reply<br>eived by the Office later than three months a<br>t term adjustment. See 37 CFR 1.704(b). | AILING DATE O<br>of 37 CFR 1.136(a). In<br>nunication.<br>atutory period will apply<br>will, by statute, cause the | PF THIS COMMUNICATION no event, however, may a reply be time and will expire SIX (6) MONTHS from the application to become ABANDONEI | Lely filed the mailing date of this communication. (35 U.S.C. § 133). |   |  |  |  |
| Status  |   |  |  |   |   |  |  |  |
| 2a)☐ This a<br>3)☐ Since  | onsive to communication(s) file action is <b>FINAL</b> .  this application is in condition d in accordance with the practi  | 2b)⊠ This actior<br>for allowance ex   | n is non-final.<br>cept for formal matters, pro  |   |   |  |  |  |
| Disposition of  | Claims  |  |  |   |   |  |  |  |
| 4a) O<br>5) ☐ Claim<br>6) ☑ Claim<br>7) ☐ Claim   | n(s) <u>1-48</u> is/are pending in the af the above claim(s) is/and is/and is/and is/are allowed.  n(s) <u>1-48</u> is/are rejected.  n(s) <u>1-48</u> is/are objected to.  n(s) is/are subject to restrict appers  | re withdrawn froi  |  |   |   |  |  |  |
| 10)☐ The d<br>Applic<br>Repla   | pecification is objected to by the rawing(s) filed on is/are: cant may not request that any objectement drawing sheet(s) including at her declaration is objected to  | a) accepted ction to the drawing the correction is r   | g(s) be held in abeyance. See equired if the drawing(s) is obj   | ected to. See 37 CFR 1.121(d).  |   |  |  |  |
| ·   | ath or declaration is objected to   | o by the ⊏xamine   | er. Note the attached Office   | Action of form PTO-152.   |   |  |  |  |
| Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some columns of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received. |   |  |  |   |   |  |  |  |
| 2) Notice of Dra 3) Information I   | ferences Cited (PTO-892)<br>aftsperson's Patent Drawing Review (F<br>Disclosure Statement(s) (PTO/SB/08)<br>/Mail Date <u>4/2/2008, 9/29/2009</u> .   | TO-948)  | 4)  Interview Summary Paper No(s)/Mail Da 5)  Notice of Informal P 6) Other:   | te  |   |  |  |  |

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## **DETAILED ACTION**

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 24 March 2010 has been entered.

- 2. Claims 1, 18, 24 and 26 have been amendment.
- 3. Claims 43-48 has been newly added.
- 4. Claims 1-48 remain rejected.

# **Responses to the Argument**

# 5. Arguments (claim 1):

"Referring to claim 1, the art cited by the Examiner relates to intermediate network verification, for verification of communications lines, in which one device determines, by itself, that a message from another device is authentic. Claim 1 has been extensively amended to illustrate that it relates to authorization of a user interacting with an intermediate device, by a separate authentication server. Thus, in the art there are two actors, while in the claim, there are three. Claim 1 should be allowed for at least this reason. In addition, claim 1 has been amended to put the authentication in context of an interaction request. This limitation too is missing from the art".

#### Response:

Per argument, it talks about "separate authentication server"; however in the claim language does not refers to separation of multiple entities of servers. Therefore an amended claim still reads Atkins, and claim 1, including its dependent claims remains rejected.

And, the applicant's arguments of claim 18-19, 21, 24, 26, and 31 <u>including its</u> dependent claims filed on 24 March, 2010 are moot in view of new ground of rejection rendered.

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# Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-8, 17, 19-23, 26-30, 43-46, 48 are rejected under 35 U.S.C 102(b) as being anticipated by Atkinson (US Patent No. 5511122), hereinafter Atkinson.

As per **claim 1**, Atkinson discloses:

- receiving an interaction request with said intermediate device by said intermediate device from said user (Atkinson, col 7, lines 44-55, FIG, 3), wherein receiving authentication request equates to interaction request.
- responding to said interaction request by said intermediate device to said first user (Atkinson, col 6, lines 20-25 and col 7, lines 45-60), wherein requesting host receive authentication response, this "send and receive" mechanism is equates to interaction.
- continuing interacting with said first user by said intermediate device in response to a said authentication (Atkinson, col 6, lines 20-25 and col 7, lines 45-60), wherein "continuing interacting" is inherent since session remains open until "kill" signal sent by the system.
- receiving an authentication datagram by said intermediate device, said authentication datagram including data from the user, in response to a said responding (Atkinson, col 7, lines 1-25), wherein user's login request, "key" must be embedded in the request, otherwise it would be invalid call. This key is the part of "authentication data" that has included in the request. This Key is interpreted as datagram.
- protecting said datagram by said intermediate device, by at least one of changing, adding to, encrypting and signing of said datagram (Atkinson, col 10, lines 26-33, and col 8, lines 11-18), wherein "key" is encrypted and "digitally signed", as claimed.

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- forwarding said datagram to said authentication server for authentication of the user (Atkinson, col 2, lines 46-49, col 7, lines 1-25), wherein user datagram is sent to the authentication system and this authentication system is the authentication server.

As per **claim 2**, claim 1 is incorporated and further Atkinson discloses:

- wherein said intermediate device comprises a vendor world wide web site (Atkinson, col 1, lines 7-12), wherein "distributed network" is the "world wide web", As claimed.

As per **claim 3**, claim 2 is incorporated and Atkinson further discloses:

- wherein protecting comprises adding a signature associated with said vendor to said datagram (Atkinson, col 10, lines 26-33, and col 8, lines 11-18), wherein "key" is encrypted and "digitally signed", as claimed.

As per **claim 4**, claim 2 is incorporated and Atkinson further discloses:

- wherein protecting comprises encrypting said datagram(Atkinson, col 9, lines 1-8), wherein data gets encrypted for security/protection purpose.

As per **claim 5**, claim 1 is incorporated and Atkinson further discloses:

- wherein said intermediate device comprises a user computing device (Atkinson, col 9, lines 26-30), where communication device is computing device.

As per **claim 6**, claim 5 is incorporated and Atkinson further discloses:

- wherein said computing device adds a time stamp to said datagram (Atkinson, col 11, lines 17-24), where timestamp is inherent.

As per **claim 7**, claim 5 is incorporated and Atkinson further discloses:

- wherein said computing device adds a time stamp to said datagram (Atkinson, col 11, lines 17-24, "This permits policy-based routing and usage-based accounting to be dependably implemented as illustrated in dashed box 112. Finally, the intermediate router transmits the

reassembled packet to the next router or gateway, possibly refragmenting the packet if necessary, see dashed box 114"). where timestamp is inherent.

As per **claim 8**, claim 5 is incorporated and Atkinson further discloses:

- wherein said computing device encrypts said datagram (Atkinson, col 8, lines 7-13,A second method is to encrypt the output of a symmetric cryptographic hash function using an asymmetric encryption algorithm. A third method is to use a keyed asymmetric cryptographic hash algorithm. The above three methods have been utilized in the past to provide end-to-end application-layer authentication but have not been used to provide intermediate network authentication.").

As per **claim 17**, claim 1 is incorporated and Atkinson further discloses:

- wherein different communication paths are used for said authentication and for transaction details from a vendor to said authentication (Atkinson, col 2, lines 46-49, "It is still another object of the invention to provide an authentication system in which the first packet or datagram fragment is dynamically routed while all succeeding packet fragments or datagram fragments then follow the established path of the first packet fragment or datagram fragment").

As per Claim 19, Atkinson further discloses:

- sending an encrypted datagram by computer communication from an authentication device to said remote authentication server, said encrypted datagram including data from at least a first user (Atkinson, col 6, lines 2-9, 1-9), the recipient is the remote authenticator communicated via vendor software, recipient is the remote authenticator.
- comparing said datagram or a hash thereof to a hash table at said server (Atkinson, col 2, lines 59-61, "transmitting the signature along with data to a first subnetwork in at least one packet, having a first packet size which is different from that of the transmitting host and thereby fragmenting the original packet into at least two packet fragments"), wherein <u>differentiating of hashed data</u> is comparing, as claimed.

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- **outputting validation answer** (Atkinson col 8, lines 11-18), wherein Validity of user is determined by the output of the "digital signature", this digital signature is the validation signal

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- receiving said encrypted datagram by said remote authentication server; searching, at said server, for a hash value matching said datagram or a hash thereof (Atkinson, col 7, lines 23-26, "All responses would use IP authentication. The Key Information Protocol would also use the host's public authentication key in the KIP response to enable the recipient to authenticate the response"), wherein response KIP is a binary validation by definition.
- generating a validation answer by said remote authentication server, responsive to said search (Atkinson, col 7, lines 23-26, "All responses would use IP authentication. The Key Information Protocol would also use the host's public authentication key in the KIP response to enable the recipient to authenticate the response"), wherein response KIP is a binary validation by definition.
- outputting said validation answer for authentication of the first user (Atkinson col 8, lines 11-18), wherein Validity of user is determined by the output authentication answer.

As per claim 20, claim 19 is incorporated and further Atkinson discloses:

- Wherein said authentication device includes a plurality of secret codes that are generated to appear unrelated (Atkinson, col 10, lines 30-33), wherein trusted code/cryptographic signature get generated, as claimed.

As per claim 21, Atkinson discloses:

- providing a code generating software (Atkinson, col 10, lines 30-33), wherein code generating by the software in inherent.
- providing at least one seed code for said software (Atkinson, col 8, lines 62-67), wherein verify the correctness and trustworthiness of smaller amounts of code than larger amounts of code is seed.
- destroying said seed immediately after generating said code set (Atkinson, col 7, lines 7-15), wherein ignore unauthenticated responses, interpreted as destroying.

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-forwarding said code set to said authentication device (Atkinson, col 2, lines 46-49), wherein "dynamically routed data" is the same as forwarding code set, as claimed.

- storing said code set or an indication thereof on an authentication device, Atkinson discloses the generation and utilization of code, inherently has storing capability.

Claims 22 and 23 are rejected under the same reason set forth in connection of claim 18 and 21.

As per claim 26, Atkinson discloses:

- matching said datagram or a hash of said datagram to a table (Atkinson, col 2, lines 59-61), where differentiating the <u>hashed code</u> is comparing, as claimed.
- calculating a counter value from a matching position in said table (Atkinson, col 7, lines 3, wherein generating number of packets are the <u>calculating value</u>, as claimed.
- validating said authentication datagram based on an increase in said counter over a previous counter being within a certain limit (Atkinson, col 3, lines 42-46, "FIG. 4)
- and for each datagram received, outputting a validation signal for the first user (Atkinson, col 7, lines 16-20), Atkinson teaches user and application level distributed Key. So, Host authenticity—is checked by router before authenticate the user in the system and Atkinson clearly mentioned providing user assess using asymmetric key.

# Claims 27-29 are rejected based on inheritance:

As per **claim 27**, where authentication mechanism based encryption/decryption and it inherently checked or compare for number of try for successful or unsuccessful attempts to identify unwanted visitor.

As per claims 28-29, where check for the threshold settings is inherent.

**Claim 30** is rejected under the same reason set forth of claim 26 and further "check for the threshold" is inherent.

As per **claim 43**, claim 2 is incorporated:

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- carried out as part of a commercial interaction between said first user and said vendor, wherein said authentication does not require said first user to interact with a different web server (Atkinson, col 7, lines 44-55, FIG, 3).

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As per **claim 44**, claim 1 is incorporated:

- wherein said receiving, protecting and forwarding is secured by a software component which is downloaded to a computing device associated with said first user and used by said user for sending an interaction request (Atkinson, col 8, lines 1-15).

As per **claim 45**, claim 2 is incorporated:

- wherein said forwarded datagram includes payment instructions to said vendor (Atkinson, col 2,lines 51-55).

As per **claim 46**, claim 44 is incorporated:

- wherein said forwarding comprises forwarding by said software component Atkinson, col 2, lines 51-55).

As per claim 48, claim 21 is incorporated:

said code set or an indication thereof on an authentication server (Atkinson, col 11, lines 9-13).

- at a later time authenticating said authenticating device by said authentication server by comparing a datagram from said authentication device against said storage at said authentication server (Atkinson, col 6, lines 35-40), storing data is inherent wherein database exists.
- 7. **Claims 31-36** are rejected under 35 U.S.C 102(b) as being anticipated by Douglas S. Daudelin (US PAT No. 4716376), hereinafter Daudelin.

As per claim 31, Daudelin discloses:

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- Detecting a transmission of an acoustic multitone FSK signal (Daudelin, col 3, lines 9-10, "FSK demodulator can optimally detect an FSK signal");

- receiving an acoustic signal (Daudelin, col 12, lines, "The constraints stem from the requirement that the <u>received signal</u> pass through the threshold value as the receiver's input frequencies are changed");
- converting the signal into a Hilbert-transform representation of the signal (Daudelin, col 4, lines, "The output of sampling circuit 160 is also applied on line 2 to a fixed phase shifting circuit 170 which includes a Hilbert transformer 4"), where "transformer 4" is the signal converter, as claimed;
- correlating said converted signal with at least one reference signal representing at least one expected frequency in said FSK signal (Daudelin, col 3, lines 48-56).
  - integrating said correlation over an interval (Daudelin, col 2, lines 29-32").
- determining if a signal is present, based on a shareholding of a result of said integrating (Daudelin, col 13, lines 45-50, "The difference generated by circuit 504 on line 506 is denominated a "threshold adjusted" signal and is applied to a decision circuit 501 which merely determines whether the threshold adjusted signal is positive or negative. The output from circuit 501 on line 500 represents the original FSK encoded data").

As per claim 32, claim 31 is incorporated:

- comprising further determining if a detected signal has a frequency within a certain frequency range (Daudelin, col 3, lines 9-13), "FSK demodulator can optimally detect an FSK signal composed of any two frequencies which lie within a broad range of the two frequencies the demodulator is initially tuned to detect").

As per **claim 33**, claim 31 is incorporated:

- determining if a detected signal has a signal to noise ratio within a certain signal to noise ratio range (Daudelin, col 1, lines 31-42)" FSK input signal is formed which is phase shifted an amount that is a function of the instantaneous signal frequency, and the product of the original and phase shifted versions is then computed. The product contains a dc component equal to the cosine of the phase difference between the two signals, and a double frequency

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component. Ideally, the phase difference is chosen to be 90 degrees at the carrier frequency, in order to permit maximum noise immunity").

As per claim 34:

- comprising resampling said signal after said determining (Daudelin, col 3, lines 60-62).

As per claim 35, claim 31 is incorporated:

- wherein said threshold is noise dependent of the received signal (Daudelin, col 4, lines, "This arrangement gives the highest degree of noise immunity and also allows the ensuing threshold decision circuit 103 to operate by simply deciding if the value of the signal output from low pass filter 102 is greater or less than zero").

As per **claim 36**, claim 31 is incorporated:

- calculating said interval based on a hardware characteristic of a producer of said acoustic signal (Daudelin, col 13, lines 66-67, and col 14, lines 1-11), where interval was calculated by the circuit, as claimed.

## Claim Rejections - 35 USC § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 18, 24, 47 are rejected under 35 U.S.C §103(a) as being unpatentable over Atkinson and in view of Lin et al. (US Publication No. 20030147547), herein after Lin.

As per claim 18, Atkinson discloses:

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- sending an encrypted datagram by secure computer communication from vendor software to said remote authenticator; (Atkinson, col 6, lines 2-9), the recipient is the remote authenticator communicated via vendor software.

- receiving said encrypted datagram by a remote authenticator (Atkinson, col 6, lines 1-9), wherein the recipient is the <u>remote authenticator</u>.
- comparing said datagram or a hash thereof to a hash table at said server (Atkinson, col 2, lines 59-61, "transmitting the signature along with data to a first subnetwork in at least one packet, having a first packet size which is different from that of the transmitting host and thereby fragmenting the original packet into at least two packet fragments"), wherein <u>differentiating of hashed data</u> is comparing, as claimed.
- **outputting validation answer** (Atkinson col 8, lines 11-18), wherein Validity of user is determined by the output of the "digital signature", this digital signature is the validation signal.
- generating a binary validation answer having only single bit by said server without an associated explanation (Atkinson, col 7, lines 23-26, "All responses would use IP authentication. The Key Information Protocol would also use the host's public authentication key in the KIP response to enable the recipient to authenticate the response"), wherein response KIP is a binary validation by definition.

Atkinson does not explicitly teach **single bit validation**; however in a relevant art Lin discloses the use of single bit authentication code/message/answer (Lin, paragraph 36).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to include the <u>encrypted authentication</u> of Atkinson with the <u>single bit validation</u> disclosed in Lin, since a feature code is given a value of 1 if the first coefficient being compared is greater than the second coefficient, a value of 0 if the two coefficients are equal, and a value of -1 if the first coefficient is less than the second coefficient., stated by Lin at paragraph 59.

As per claim 47, claim 1 is incorporated:

- herein said authentication comprises a single bit authentication answer without an associated explanation; however in a relevant art Lin discloses this teaching (Lin, paragraph 36).

Same motivation applies herein as equally as in claim 18.

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9. Claims 24 are rejected under 35 U.S.C §103(a) as being unpatentable over Atkinson and

in view of Sandberg (US Publication No. 20040053642), hereinafter Sandberg.

As per claim 24, Atkinson discloses:

- receiving an authentication datagram from said user (Atkinson, col 2, lines 46-49,

"It is still another object of the invention to provide an authentication system in which the first

packet or datagram fragment is dynamically routed while all succeeding packet fragments or

datagram fragments then follow the established path of the first packet fragment or datagram

fragment"), where "datagram" is dynamically sending, so inherently other side (Authenticator) is

receiving it, as claimed;

-forwarding said datagram to a remote authentication server for authentication for

authentication of the user when at least an indicator of said one time code that matches said

user is provided with the said datagram (Atkinson, 51-60).

- forwarding said datagram to a remote authentication server for authentication of

the vendor when at least an indication of said one time code that matches the vendor is

provided with said datagram; generating one time code for the user for the session

(Atkinson does not explicitly teach the datagram using/generating one time code by the user;

however in a relevant at Sandberg teaches the use of one time code (Sandberg, paragraph 2)

It would have been obvious to one of ordinary skill in the art at the time the invention

was made to include the encrypted authentication of Atkinson with the use of one-time code

disclosed in Sandberg, since with a one time activation code which is generated in the server.

This code will be used to authenticate the user towards the server after the registration and to

initiate the key generation process into the Smart Card, stated by Sandberg at paragraph 12.

As per Claim 25, claim 24 is incorporated:

Atkinson does not explicitly teach the using one time code by the user; however in a

relevant at Sandberg teaches the use of one time code (Sandberg, paragraph 2)

Same motivation applies herein as equally as in claim 24.

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As per claims 9-16:

Official notice is hereby taken it is well-known practice of encryption coding, such as using "temporary code", matching user with session ID, using of ActiveX, embedded software, caching data, secure connection between client and server, use of different path for different

types of data.

The skilled person would have been motivated to use such algorithm to communicate

efficiently and securely in a distributed environment.

10. Claim 37 is rejected under 35 U.S.C. 103(a) as being unpatentable over Atkinson and in

view of Douglas S. Daudelin (US PAT No. 4716376), hereinafter Daudelin and in view of

Schutzer, Daniel (US Patent No. 6873974), hereinafter Schutzer.

As per claim 37, claim 1:

Atkinson in view of Daudelin does not explicitly teach wherein said authentication datagram additionally includes data from a second user, wherein said forwarding includes

forwarding said datagram to said authentication server for authentication of the second

user; however in a relevant art Boreckiet discloses debit or credit card and its information,

wherein "credit card/consumer wallet" itself is a second user and inputted card information is

additional authentication datagram (Schutzer, Abstract, col 9, lines 35-40).

It would have been obvious to one of ordinary skill in the art at the time the invention

was made to include the multitone FSK signal of Atkinson in view of Daudelin with the

additional datagram disclosed in Schutzer, since the present invention provides for adaptive

network security, as the invention can adapt to a changing network environment and recalibrate

in order to maintain a sufficient level of network security.

11. Claim 38 is rejected under 35 U.S.C §103(a) as being unpatentable over Atkinson and in

view of Lin et al. (US Publication No. 20030147547), herein after Lin and in view of Schutzer.

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As per claim 38, claim 18 is incorporated and Atkins discloses:

Atkinson and in view of Lin does not explicitly teach wherein said encrypted datagram additionally includes data from a second user; however in a relevant art Schutzer teaches credit card data being encrypted and wherein said outputting additionally includes outputting said validation answer for authentication of the second user (Schutzer, col 9, lines 35-40, col 10, lines 12-20).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to include the <u>multitone FSK signal</u> of Atkinson in view of Lin with the <u>first and second user</u> disclosed in Schutzer, since the present invention provides for adaptive network security, as the invention can adapt to a changing network environment and recalibrate in order to maintain a sufficient level of network security.

12. **Claims 39 are** rejected under 35 U.S.C 102(b) as being unpatentable over Atkinson (US Patent No. 5511122), hereinafter Atkinson and in view of Boreckiet.

As per claim 39, claim 19 is incorporated:

Atkinson does not explicitly teach wherein said encrypted datagram additionally includes data from a second user; however in a relevant art Boreckiet discloses debit or credit card and its information, wherein "credit card/consumer wallet" itself is a second user and inputted card information is additional authentication datagram (Boreckiet, Abstract).

- wherein said outputting additionally includes outputting said validation answer for authentication of the second user (Boreckiet, col 10, lines 12-20).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to include the <u>multitone FSK signal</u> of Atkinson with the <u>additional datagram</u> disclosed in Boreckiet, since the present invention provides for adaptive network security, as the invention can adapt to a changing network environment and recalibrate in order to maintain a sufficient level of network security.

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13. Claim 40, 41, are rejected 35 U.S.C §103(a) as being unpatentable over Atkinson and in

view of Schutzer.

As per 40, claim 21 is incorporated:

Atkinson does not explicitly teach wherein said remote device is additionally configured for authentication of a second user; however in a relevant art Schutzer discloses is teaching (Schutzer, col 1, lines 65-67 and col 2, lines 1-4), where "payment engine" is configured to authenticate credit card. Credit card itself is the second user.

- wherein said providing at least one seed code additionally includes providing at least one seed code for the second user for said software, wherein encryption inherently has a seed (Schutzer, col 9, lines 35-40),.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to include the <u>additional configuration</u> of Atkinson with the <u>payment engine</u> disclosed in Schutzer, since a feature code is given a value of 1 if the first coefficient being compared is greater than the second coefficient.

As per claim 41, claim 26 is incorporated:

Atkinson does not explicitly teach wherein said method is additionally for remote validation of a second user; however in a relevant art; wherein said receiving additionally includes, from the second user, receiving an authentication datagram by an authentication server from a remote authentication device Schutzer discloses this teaching "credit card umber and address of the user" as the additional datagram form the credit card, And this card itself a second user (Schutzer, Abstract, col 8, lines 48-58).

Atkinson does not explicitly teach wherein said receiving additionally includes, from the second user, receiving an authentication datagram by an authentication server from a remote authentication device; wherein said outputting additionally includes outputting a validation signal for the second user however in a relevant art wherein "credit card umber and address of the user" as the additional datagram form the credit card, And this card itself a second user (Schutzer, Abstract, col 8, lines 48-58),.

Same motivation applies herein claim as equally as in claim 40.

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14. Claim 42 is rejected under 35 U.S.C 102(b) as being anticipated by Douglas S. Daudelin

(US PAT No. 4716376), hereinafter Daudelin and in view of Atkinson and in view of Schutzer.

As per claim 42, claim 31 is incorporated and Atkins discloses:

Daudelin in view of Atkinson does not explicitly teach wherein said at least a first user comprises a first user and a second user; however in a relevant art teaches this functionality

wherein "consumer" who is shopping using credit card is the "first and second user" (Schutzer,

Abstract).

It would have been obvious to one of ordinary skill in the art at the time the invention

was made to include the multitone FSK signal of Daudelin in view of Atkinson with the first and

second user disclosed in Schutzer, since the present invention provides for adaptive network

security, as the invention can adapt to a changing network environment and recalibrate in order

to maintain a sufficient level of network security.

Conclusion

15. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure (see form "PTO-892 Notice of Reference Cited").

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Monjour Rahim whose telephone number is (571)270-3890. The examiner

can normally be reached on 5:30 AM -3:30 PM (Mo-Th).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Kambiz Zand can be reached on (571)272-3811. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

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/Monjour Rahim/ Patent Examiner Art Unit: 2434

Date: 4/22/2010

/Kambiz Zand/

Supervisory Patent Examiner, Art Unit 2434